



# EXTREME MARQUEES

## WHAT YOU'LL NEED

Drill / Impact Driver x2

Socket Set & Shifter

Ladder x2

Mallet

Forklift / Crane / Scissor Lift \*

Tape Measure

Stringline

Level

Marking Pencil

Stanley Knife

***Warning read instructions carefully before use.***

Recommended procedure to follow in this document.

For safety reasons it is recommended that at least four persons set up any Crest Marquee.

Ensure area is free from any sharp objects & overhead objects.

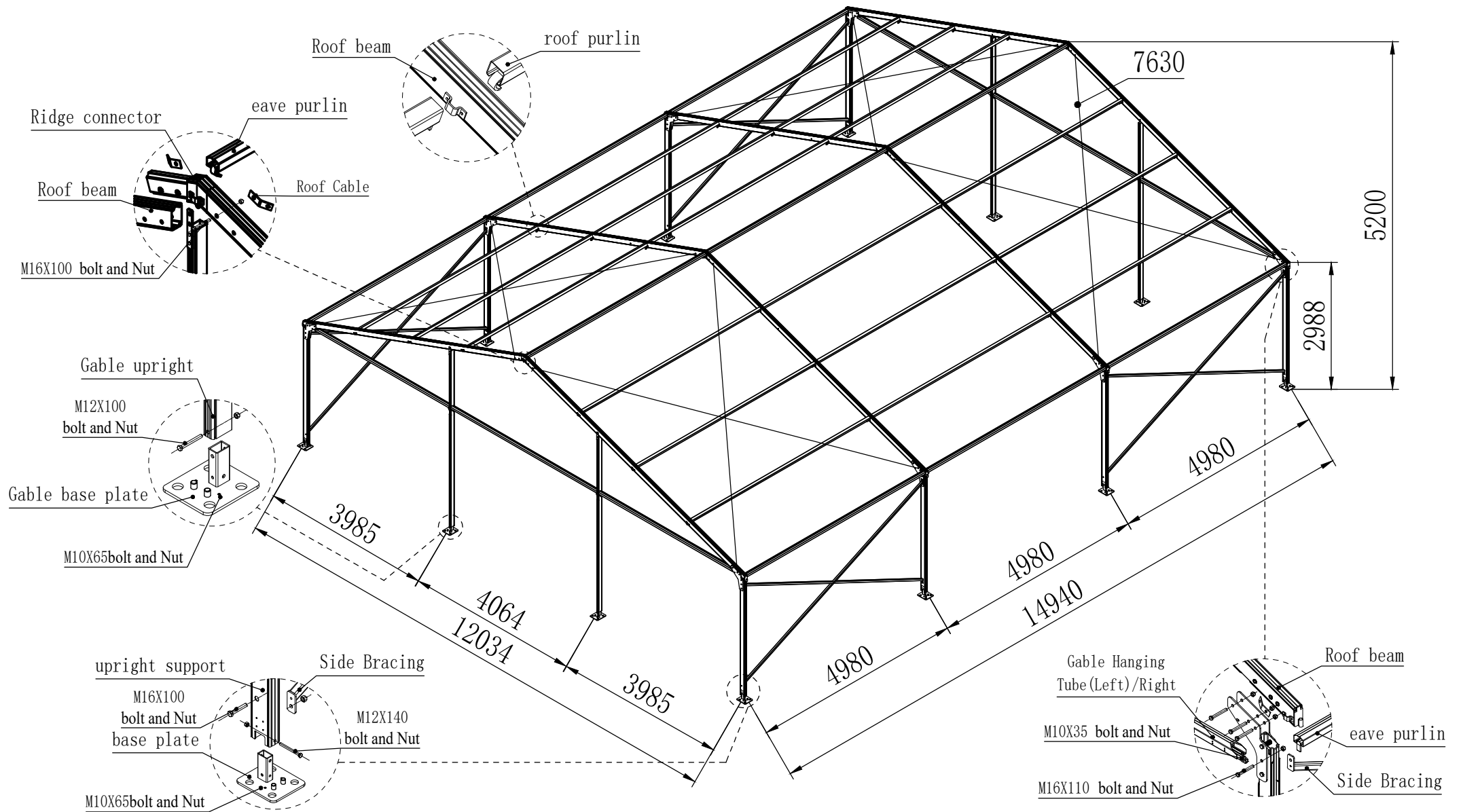


[www.extrememarquees.com.au](http://www.extrememarquees.com.au) 1300 850 832

## 12m x 15m ES Series 122 **PACKING LIST**

Item	Item Name	Specification	Unit	Qty	Packing
Steel Components and PVC Fabric	side base plate	210*240*140	pc	12	PVC bags
	eave connector	68*122*565	pc	4	
	roof cable	7630	pc	8	
	right angle connecting tube	25*40*250	pc	4	
	connecting tube	25*40*250	pc	8	
	eave tension screw	M17X280	pc	8	
	fasteners	30*410	pc	4	
	bolts and nuts	M10*35	set	5	
	bolts and nuts	M10*65	set	26	
	bolts and nuts	M12*100	set	5	
	bolts and nuts	M12*140	set	10	
	bolts and nuts	M16*100	set	30	
	bolts and nuts	M16*110	set	34	
	steel pins	800mm	pc	48	
	pin puller	1450mm	pc	1	
	pull rope	Ø16*30m	pc	2	
	steel box with wheels	6.5x0.8x1.1	pc	1	
	white roof cover	4940*13578	pc	3	
	white gable cover	2533*6079	pair	2	
white gable wall	4046*3000	pair	6		
white side wall	4940*3000	pair	6		
Item	Item Name	Specification	Unit	Qty	Packing
Aluminum Frame	main profile-side leg	68*122*2800	pc	8	Steel packing box
	main profile-roof beam	68*122*6445	pc	8	
	gable upright	48*84*4200	pc	4	
	gable eave rail	60*80*3690	pc	4	
	middle gable eave rail	60*80*4014	pc	2	
	roof purlin	60*60*4910	pc	18	
	eave purlin	60*80*4910	pc	9	
	curve tension tube for gable	31*55*4000	pc	6	
	curve tension tube for side	31*55*4900	pc	6	
	side bracing	40*40*5427	pc	8	
	mounting fork for installation	26*5000	pc	1	
	side wall bearing bar	26*4020	pc	6	
	gable wall bearing bar	26*4920	pc	6	
	aluminum connector for gable cover	22*44*2250	pc	2	





Main Profile	Gable Upright	Eave Purlin	Roof Purlin	Gable Eave Rail

Tolerancing Principle DIN ISO 8015		General Tolerances DIN ISO 2768-mK		Quantity		Name	G12X15 Frame Drawing	View 
Unit	mm	Format	A4	Scale	1:100	Code		
Code		Design	Fly Snow	Series	G			
Rev.		Date		Weight				
Original code				Tech.				

**12m x 15m ES Series 122**  
**ELEVATION**

# CREST MARQUEE OVERVIEW

## 1. Introduction

The Extreme Marquees Crest main structure is made up of extruded aluminium and steel. The adjustable frame Base Plate is able to be used on any ground surface.

### Frame Specifications

Max Allowed Windspeed: 80km/hr 0.3kn/m<sup>2</sup>

Eave Connection: Hot-dip galvanized steel insert

Framework Material: Hard pressed extruded aluminium 6061/T6 (13HW)

### Cover Fabrics/Material

850gsm White or Coloured PVC

950gsm Clear PVC

### Wall Fabrics/Material

650gsm White PVC

850gsm Coloured PVC

950gsm Clear PVC

### All Materials are:

Waterproof

UV Protective

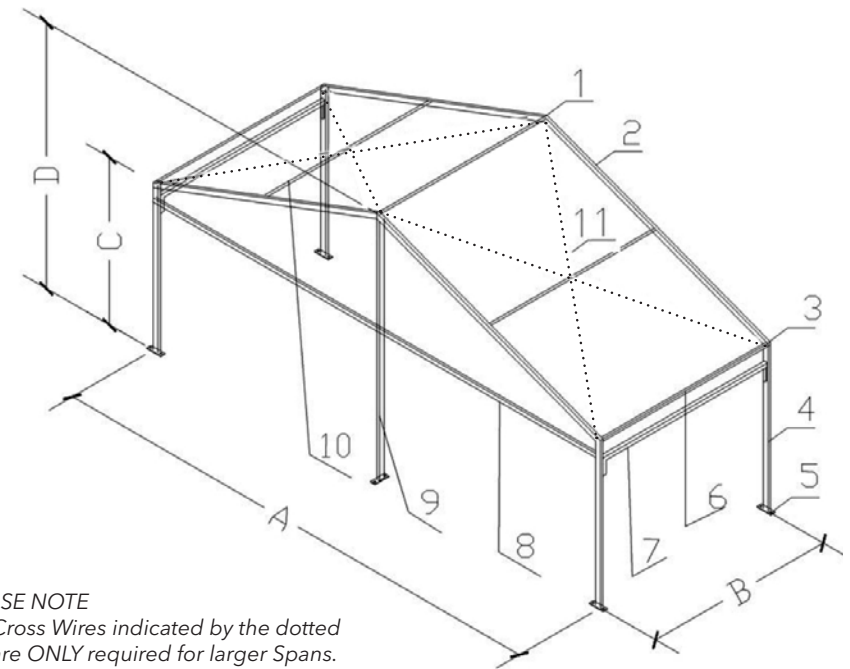
Flame Retardant (B1 DIN 4102/GB8642)

All seam/joins are constructed using high frequency welding

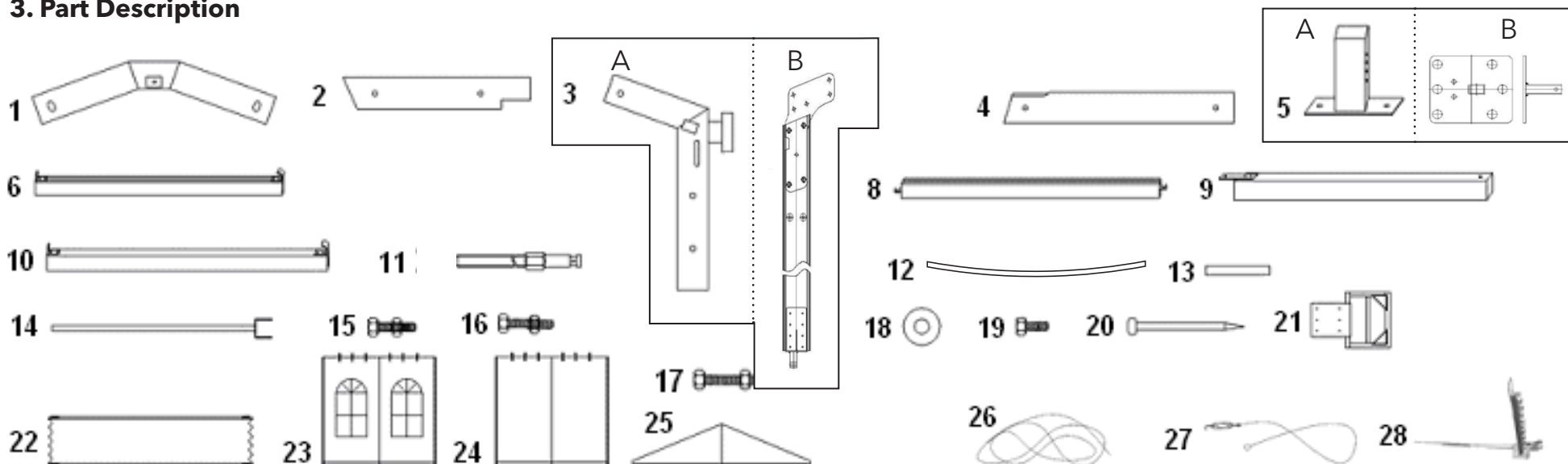
For more information refer to Engineering Certificate and Product Specifications online or with your Sales Consultant.

<https://www.extreme-marquees.com.au/event-marquees/crest-marquees/>

## 2. Structure Description

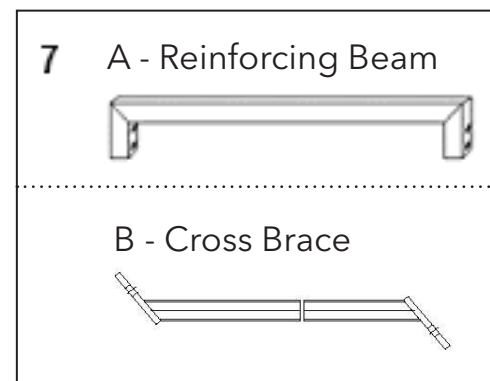


### 3. Part Description



Item #	Description
1	Ridge Connector
2	Roof Beam
3	Corner Connector (Type A / B)
4	Corner Upright
5	Base Plate (Type A / B)
6	Eave Purlin
7	Reinforce Beam (A) / Cross Brace (B)
8	Gable Eave Rail
9	Gable Support
10	Roof Purlin
11	Tension Bolt
12	Tension Bar
13	Connecting Rod
14	Mounting Fork

Item #	Description
15	M10 x 70 Bolt
16	M10 x 100 Bolt
17	M10 x 120 Bolt + Nut
18	Washer
19	M16 x 30 Bolt
20	Steel Stake
21	Weight Bracket
22	Roof Fabric
23	Side Wall
24	Front Wall/Back Wall
25	Gable Fabric
26	Pull Rope
27	Cross Wire
28	Stake Puller



## 4. Assembly Cautions

- a) Before commencing construction refer to the Ground Set Out plan of the marquee. Measure the ground area and confirm the marquee dimensions.
- b) Fix the Base Plate of the Marquee after assembling the complete frame.
- c) For safety reasons it is recommended that four persons setup any Crest Marquee. Read the instruction manual carefully and check all parts before construction.
- d) Check the wind and weather conditions before commencing construction.
- e) Ensure the area is free from any sharp objects and overhead objects.
- f) Ensure you have the correct ground fixings for your application.
  - 1. Grass: Steel Stakes  
Fix each Base Plate with Steel Stakes. Ensure stakes are appropriately secured into the soft surface (Grass/Dirt).
  - 2. Concrete: Dynabolt  
Fix each Base Plate with Dynabolts.
  - 3. Weight Plate: Ground Mounting (suitable for any surface)  
Each Base Plate will need to have at least 200kg.
- g) Once constructed a safety inspection should be conducted on a regular basis.

## 4.1 Dismantle Cautions

- h) Mark and pack all components in appropriate product covers.
- i) Ensure Roof and Walls Fabrics are completely dry before packing down and fitting the protective covers. Do not put heavy items on top of the Marquee fabric during transport.

## 4.2 Maintenance

- j) The PVC should be cleaned with mild detergent, do not use any acidic or alcohol solutions. Only pack the PVC when it is dried thoroughly, to prevent mold or stains.
- k) Do not clean the aluminium parts by acid or high concentrated cleanser.
- l) Store in a cool, dry and clean environment and check the goods regularly.

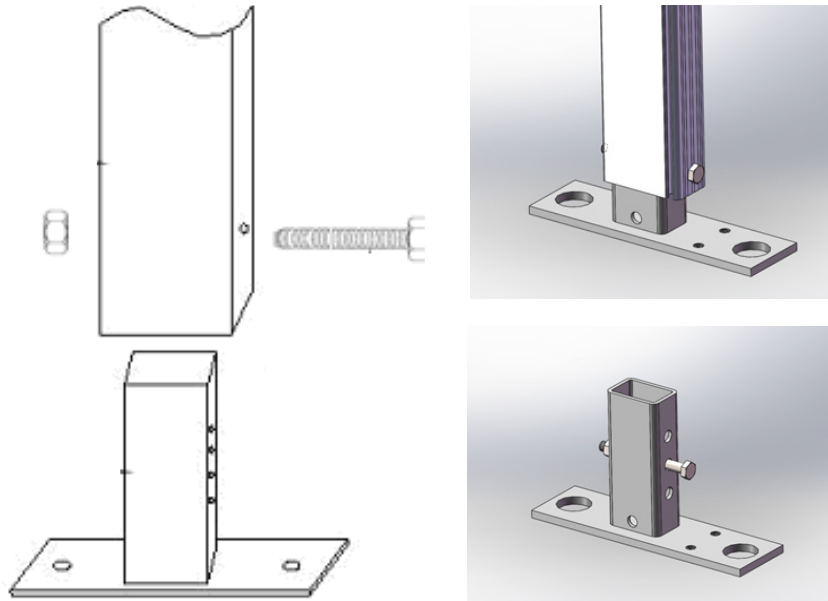
## 4.3 Product Cautions and Safety

- m) When the marquee is in use, do not leave your marquee unattended.
- n) Wind rating as per engineering certificate, review weather conditions.
- o) When the Marquee is in use and if part of the structure looks damaged or not fit for purpose the marquee should be dismantled at once for safety reasons.



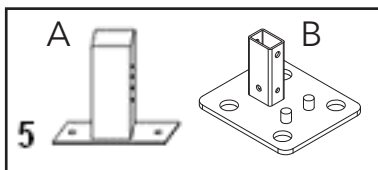
## 5. Construction

When commencing construction of the Crest Marquee build each frame bay section flat on the ground.



### STEP 1: Assemble Base Plate and Corner Upright

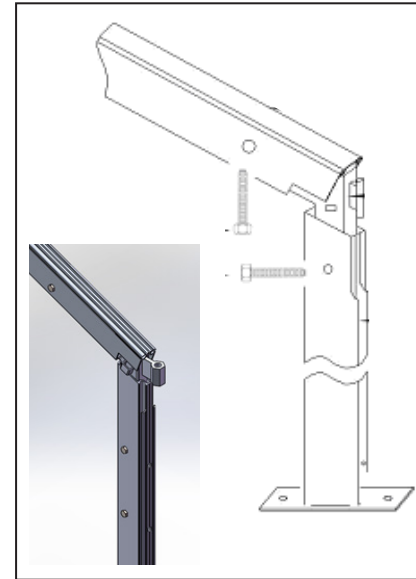
Position the Base Plate into the Corner Upright and bolt together.



*Type A - FS Series 84 and FD Series 100 have adjustable feet*

Refer to the Elevation Drawing and Parts List to confirm your method of construction for Step 2.

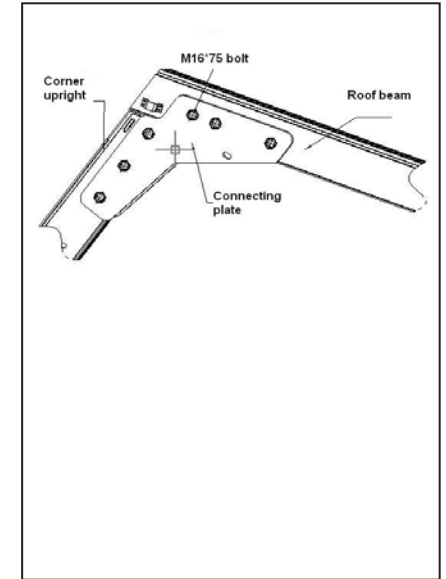
### FRAME TYPE A



### STEP 2 (A): Assemble Corner Upright, Corner Connector and Roof Beam

Put Corner Connector into Corner Upright and Roof Beam and bolt together.

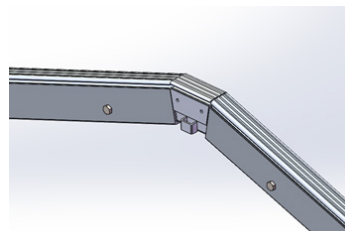
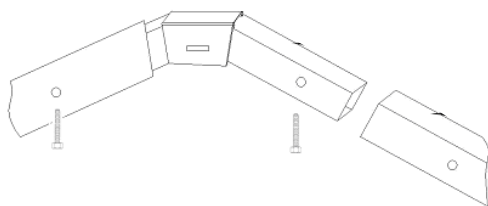
### FRAME TYPE B



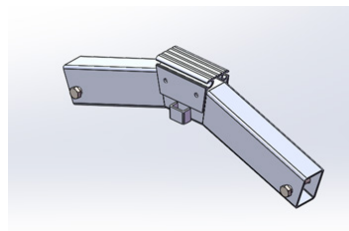
### STEP 2 (B): Assemble Corner Upright and Roof Beams

Insert Roof Beam into the Upright Beam and bolt together.





Ridge Connector with Roof beams

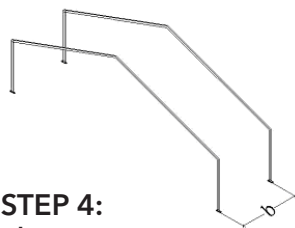


Ridge Connector

### STEP 3: Assemble Ridge Connector with Roof Beams

Put Ridge Connector into Roof Beam and bolt together.

*You have now completed one Bay, repeat the process until all Bays are constructed.*

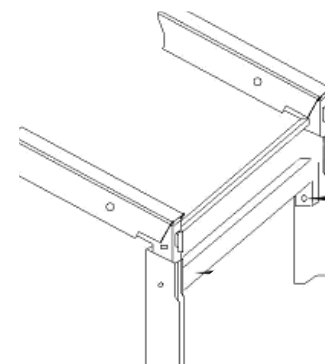


### STEP 4: Elevate Frame

When two bays have been completed, stand up the first bay. Once upright hold into position with two team members or secure with ropes. Stand up second bay and move into position.

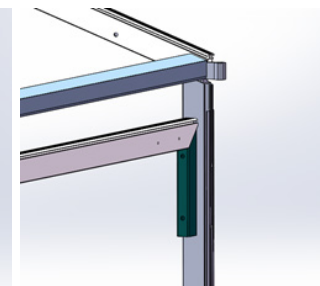
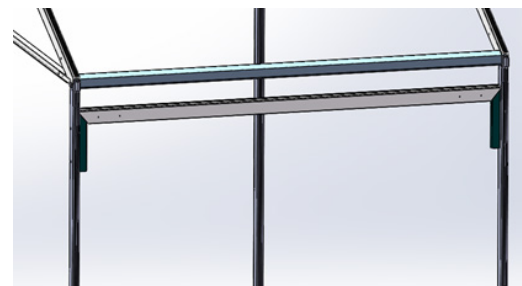
*Diagram note: (b) 3m or 5m bays, refer to elevation diagram.*

**Refer to the Elevation Drawing and Parts List to confirm your method of construction for Step 5.**



### STEP 5 A: Connect the Reinforcing Beam

Connect the two bays together using the Frame Reinforcing Beam and bolt together.

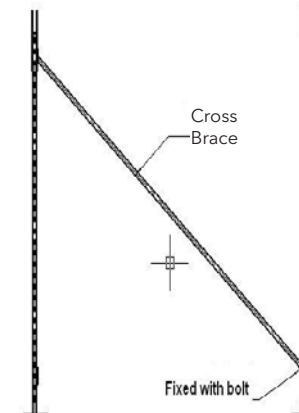


### STEP 5 B: Connect the Cross Brace

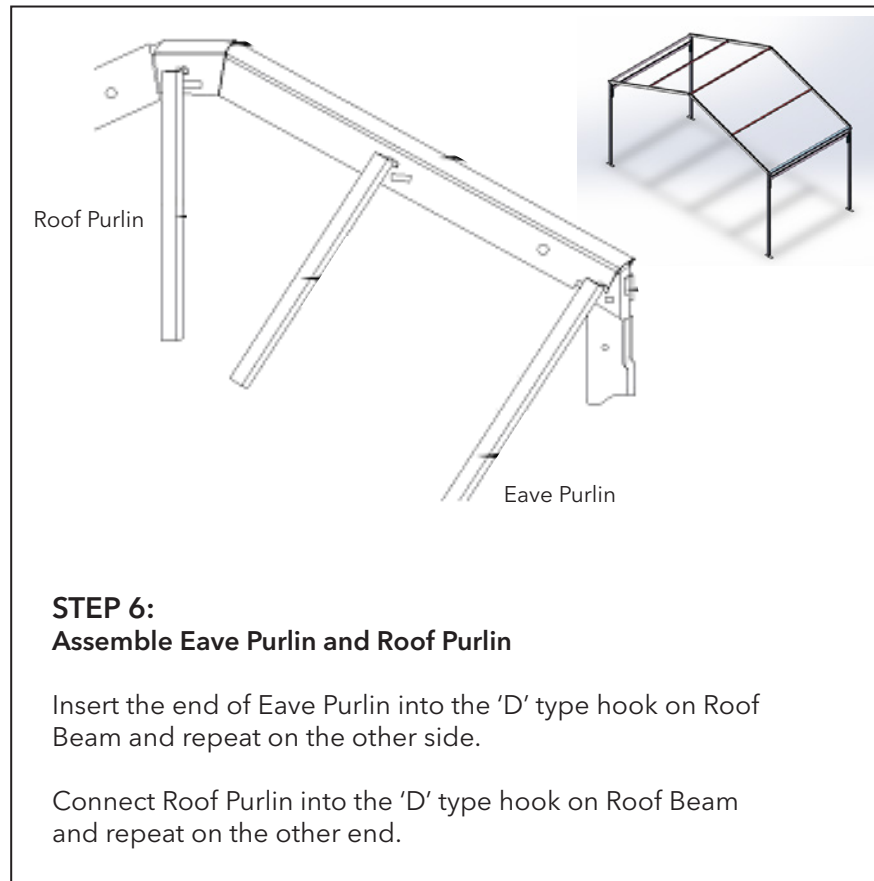
Refer to elevation diagram for positioning of Cross Braces.

Fix the Cross Brace to the Corner Uprights and bolt together.

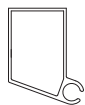
For FS and FD series, they don't have cross bracing on side. Only 10m span have roof cable.



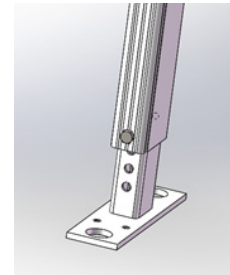
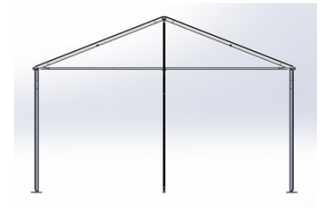
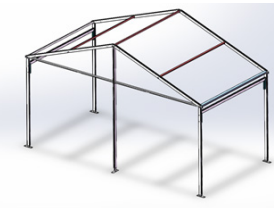
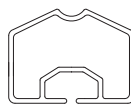
Refer to the Elevation Drawing and Parts List to confirm your method of construction for Step 6.



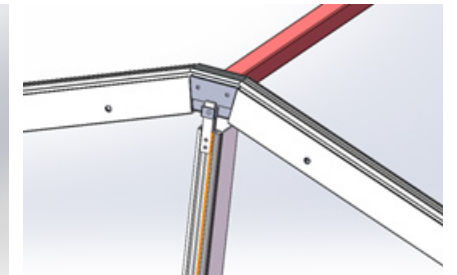
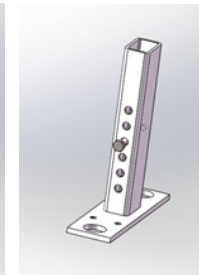
A - Eave Purlin Type



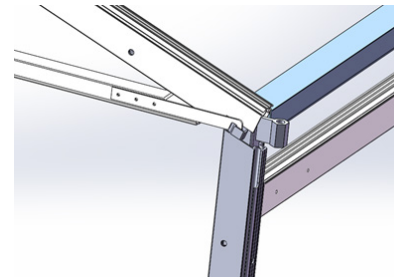
B - Eave Purlin Type



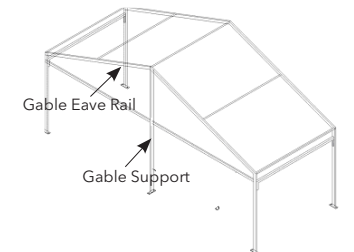
Gable Support with gable base plate



Gable support top view



Gable Eave Rail



### **STEP 7:** **Assemble Gable Support and Gable Eave Rail**

Insert the end of Gable Support into the 'U' type hook of Ridge Connector and fix with Bolt.

Fit the 'hook' end of Gable Eave Rail on the 'D' type hook of Gable Support.

Fit the other Gable Eave Rail to the 'D' type hook on the Corner Connector.

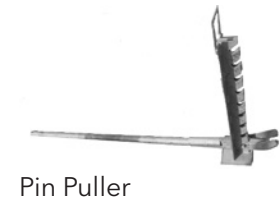
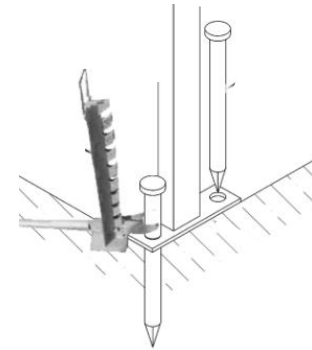
Repeat this step for the other Gable End of the Marquee.

## STEP 8: Ground Fixings

*The frame must be fixed and secure prior to installing the Roof and Wall Fabric.*

Ensure you have the correct ground fixings for your application.

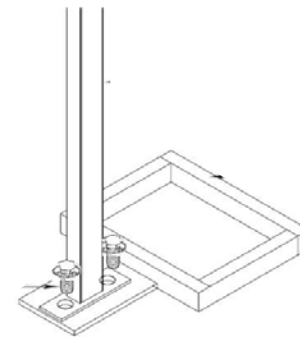
1. Grass: Steel Stakes  
Fix each Base Plate with Steel Stakes. Ensure stakes are appropriately secured into the soft surface (Grass/Dirt).
2. Concrete: Dynabolt  
Fix each Base Plate with Dynabolts.
3. Weight Plate: Ground Mounting (suitable for any surface)  
Each Base Plate will need to have at least 200kg.



### 8.1 Securing Steel Stakes and removing Steel Stakes

Insert Steel Stake into the opening of Base Plate and drive Steel Stake into the ground with a mallet/hammer until securely fixed.

When removing Steel Stakes use the Stake Puller to remove.



### 8.2 Weight Plate Fixing

Fix the Corner Upright with the Weight Bracket using bolts and washers as seen in the above drawing.

# INSTALLATION HINTS & TIPS

## Installation of Roof Fabric

View of the 'outside' and 'underside' of Roof Panels.

### Outside of Roof Panels



### Underside of Roof Panels



**REFER TO STEP 9 ON NEXT PAGES**



# INSTALLATION HINTS & TIPS

## Installation of Roof Fabric

When connecting the Ropes to the Webbing on Roof Panel **DO NOT tie a knot** use the following loop technique. This technique avoids the knot getting wedged of Roof Purlins.



1. Fold the rope.



2. Open a section of inter-twined rope.



3. Pull the 'start' of the rope through the opening.



4. Twirl the rope to 'close' the opening.



5. View of loop technique.

Connect the loop and pull the Roof Panels through the channels of the Roof Beam. To pull the Roof Panels through use either two to four people on either rope or a forklift or other powered machines dependant on size of Crest.

Watch video <https://www.extreme-marquees.com.au/folding-marquees/extreme-video-gallery/>

**REFER TO STEP 9 ON NEXT PAGE**

**STEP 9:**  
**Installation of Roof Fabric**

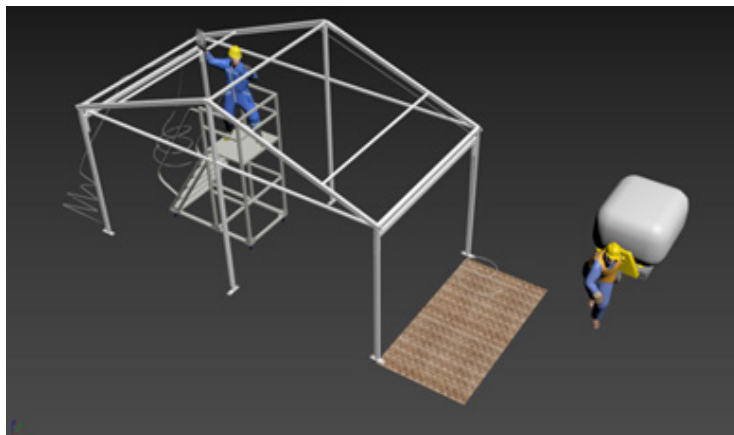


Image 1

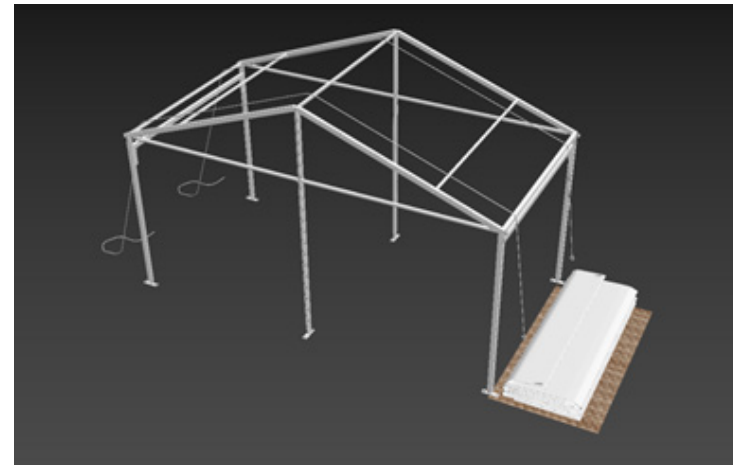


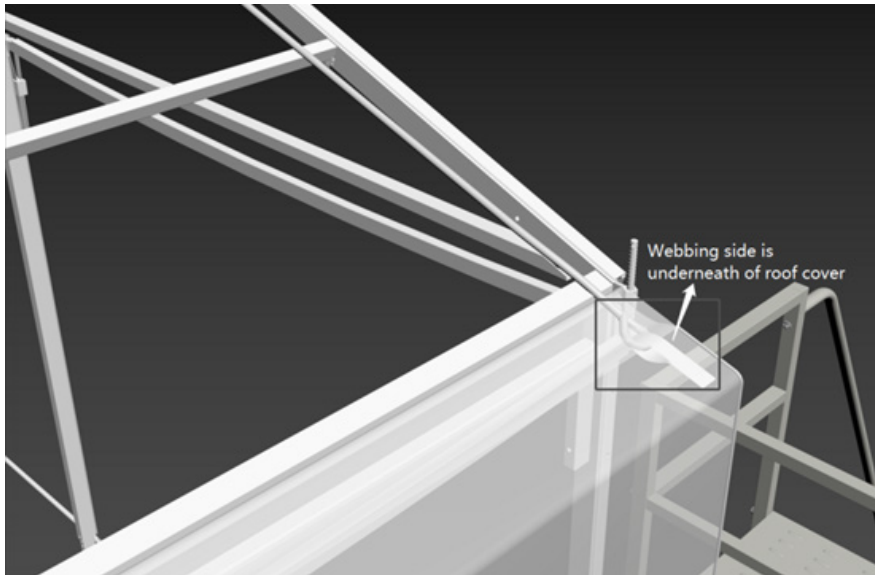
Image 2

**9.1**

Put the two installation ropes on the top of the frame as image 1 & 2.

Layout the roof cover on ground as image 2

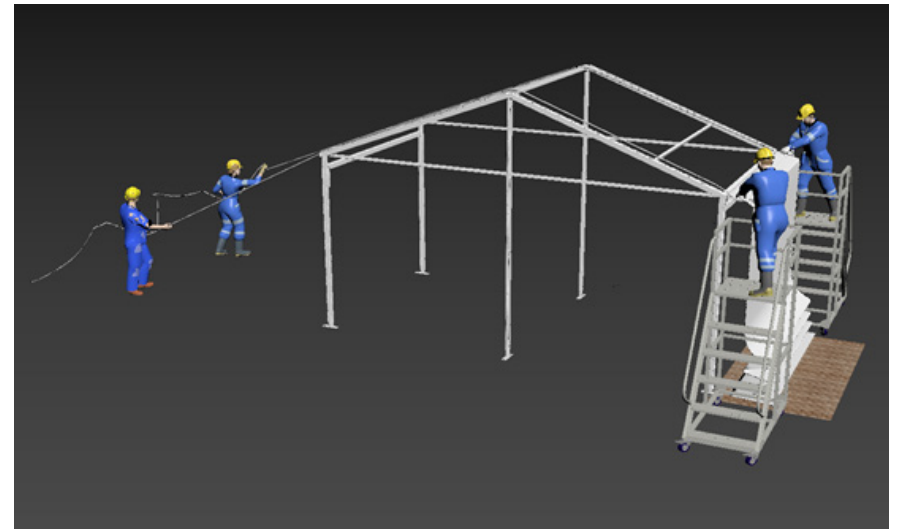
*To keep the roof cover clean, pls put one fabric or carpet or pallet on the bottom to hold the roof.*



## 9.2

Tie the installation ropes around the webbing of the roof cover.

**IMPORTANT** The webbing and tied off rope MUST be on the underside of the roof panel.



## 9.3

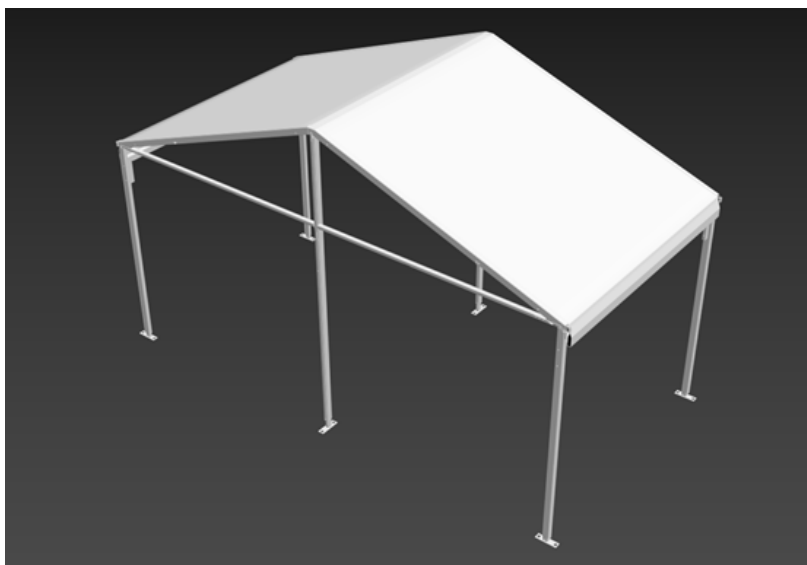
Insert the left/right kedar side of roof cover into channel of roof beam.

*Four people are required to completed this process.*

Two people to evenly insert the kedar of the roof panel into the channel of the roof beam.

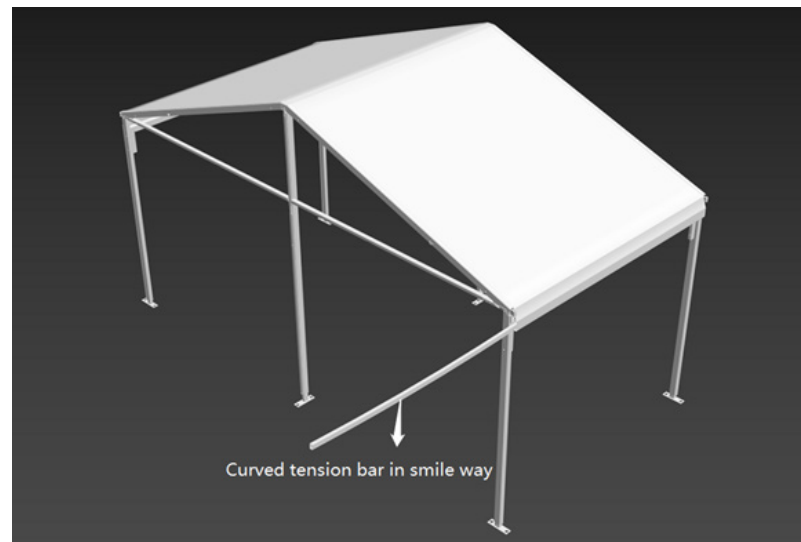
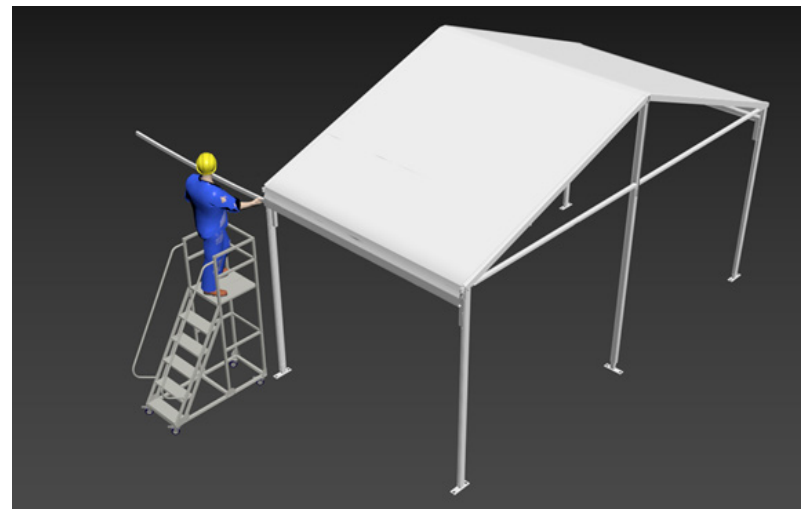
Two people on the opposite side evenly pulling the ropes to thread the roof panel.





#### 9.4

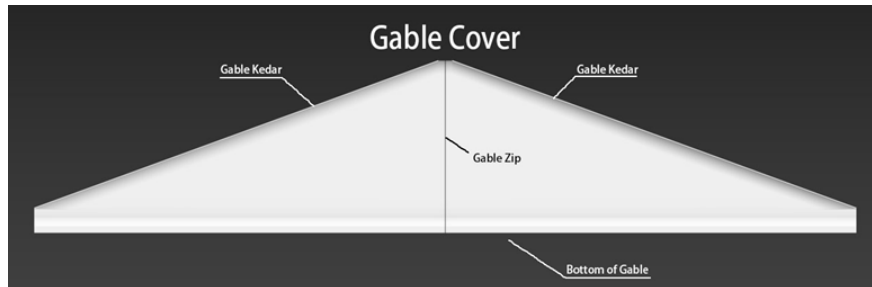
Continue to thread the roof kedar into the channel of the roof beam until the roof is fitted.



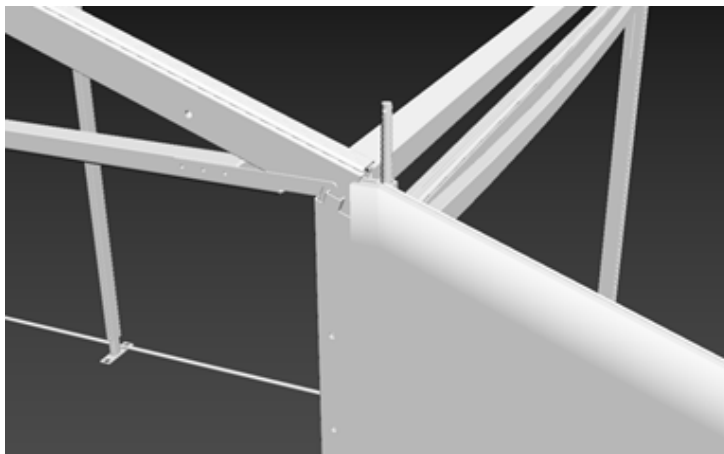
#### 9.5

Insert the curve tension bar into bottom sleeve of roof cover. The bar is to be inserted the 'smiley' way up.

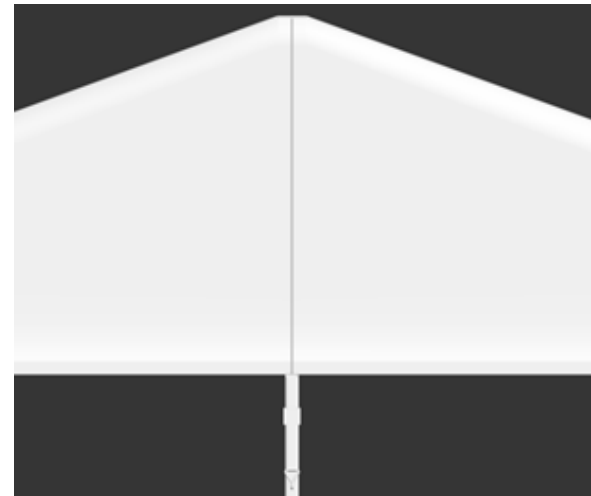
**STEP 10:**  
**Installing the Gable Fabric**



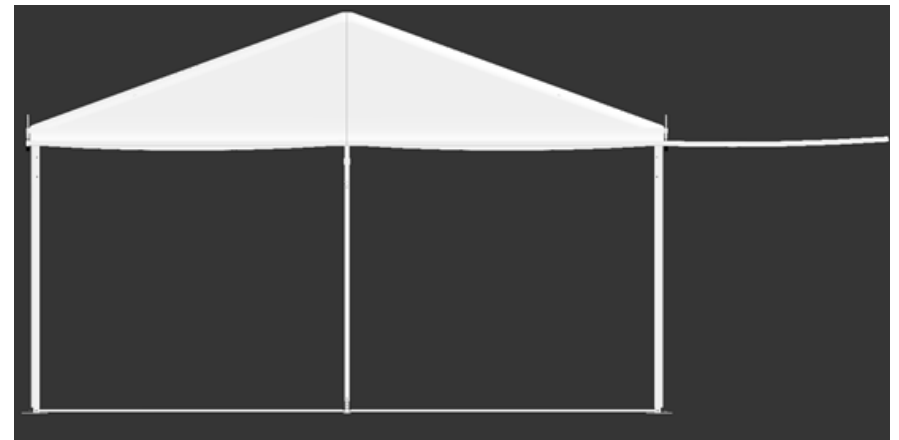
**10.1**  
Un-zip/separate the gable into two pieces left/ right.



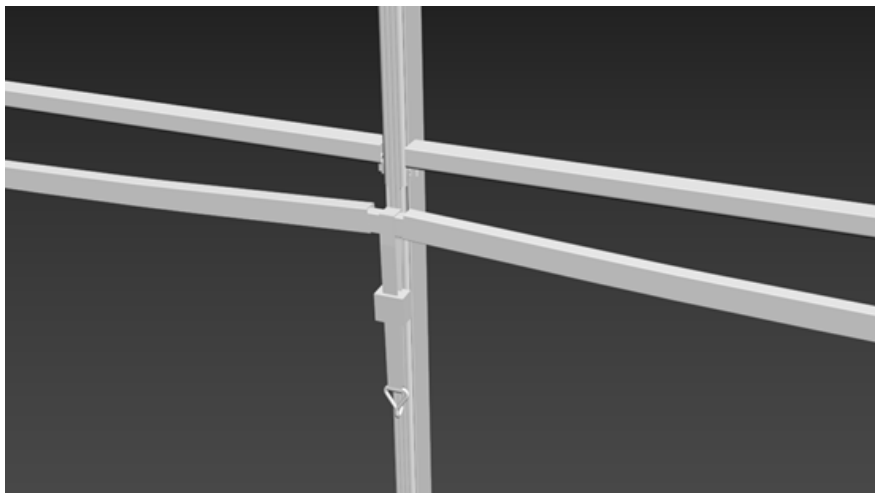
**10.2**  
Insert the left/right side of gable cover kedar into the channel of roof beam, slide the fabric from bottom to the top of the roof beam.



**10.3**  
Zip the centre of the left/right gable cover together

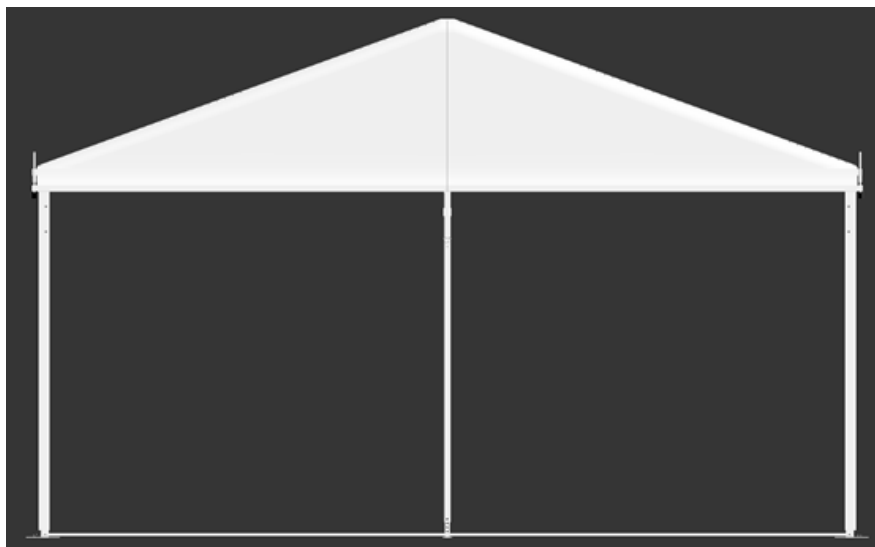


**10.4**  
Insert the curve tension bar into bottom sleeve of the gable cover.  
**IMPORTANT** : Curve tension bar must be put into the sleeve in 'smiley' way up.



### 10.5

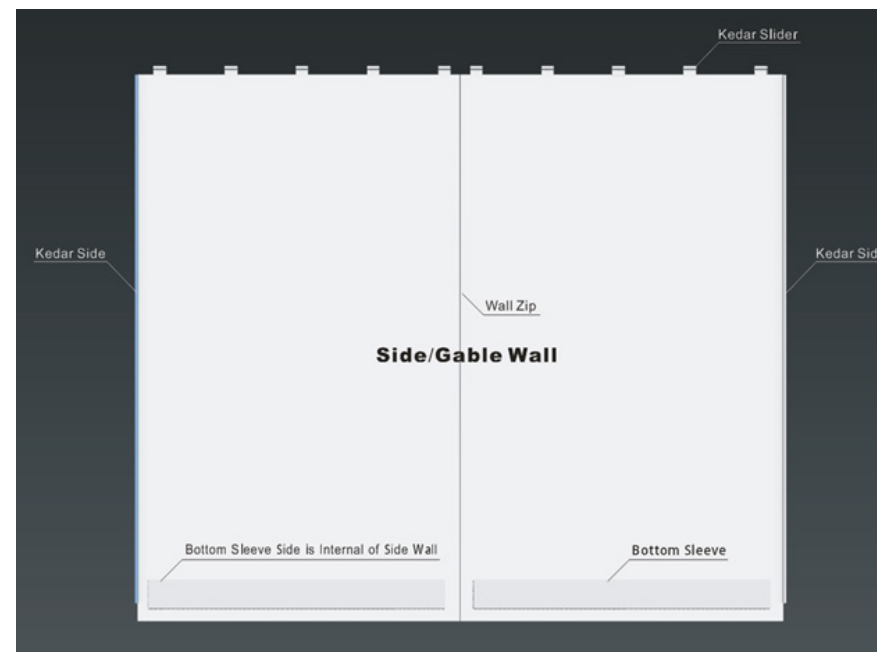
Install one connecting tube to connect the two curve tension bars and use fastener to tension gable cover.



### 10.6

Finished gable cover

## STEP 11: Installing the Side Wall Fabric

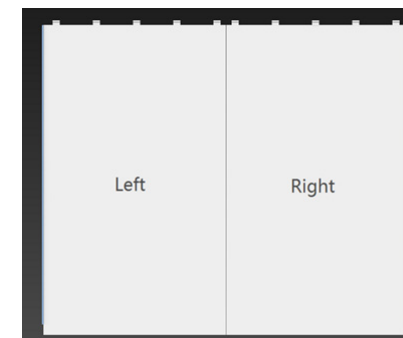


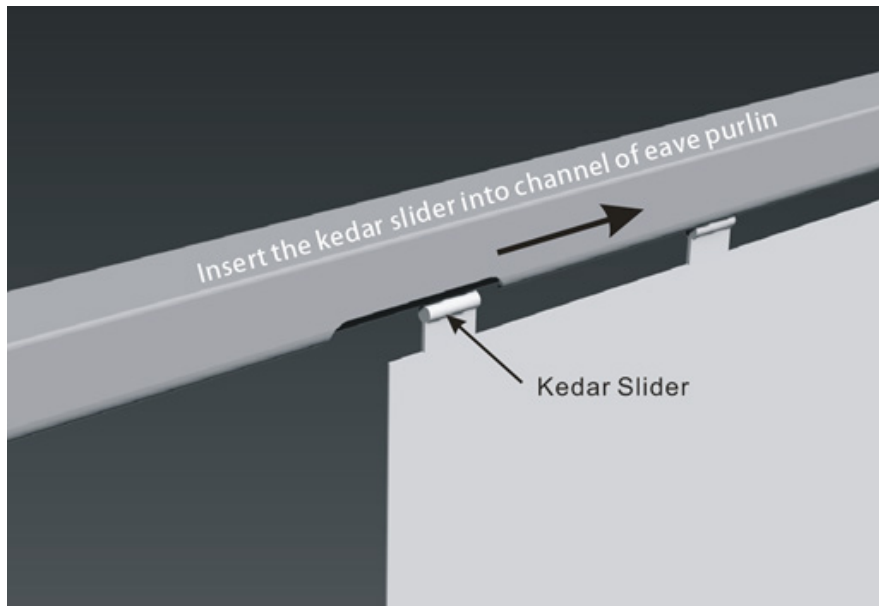
NOTE: Inside view of wall

### 11.1

Un-zip/separate the wall into two pieces left/right

**IMPORTANT** The sleeve at the bottom of the wall panel is to be on the inside of marquee.

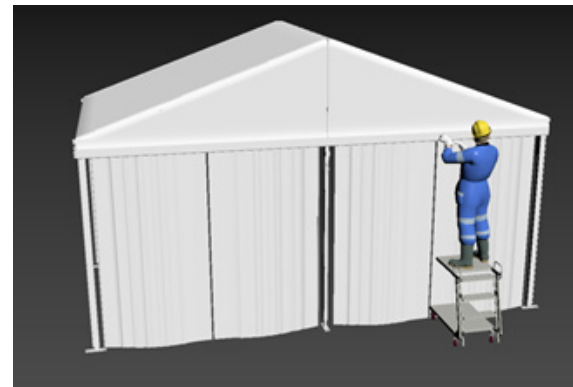


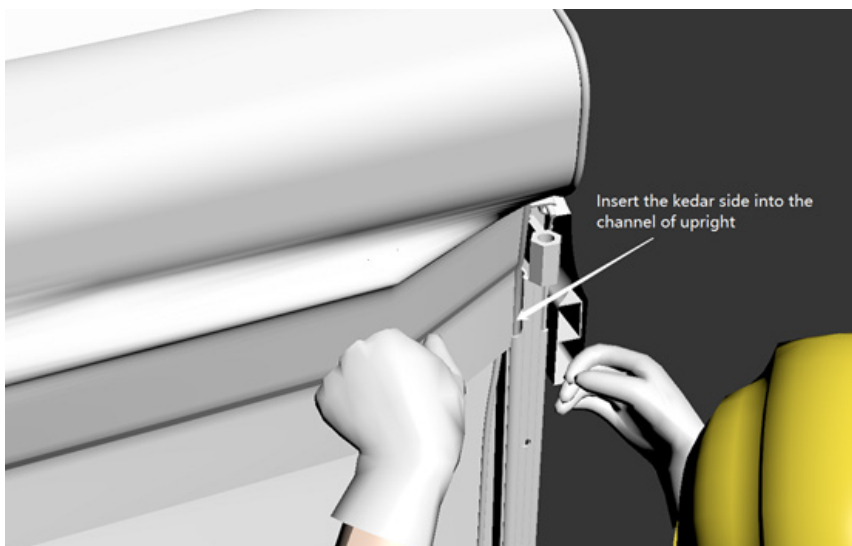


### 11.2

Insert/slide the wall kedar into channel of eave purlin

*Tip: gable & side wall use the same installation method*

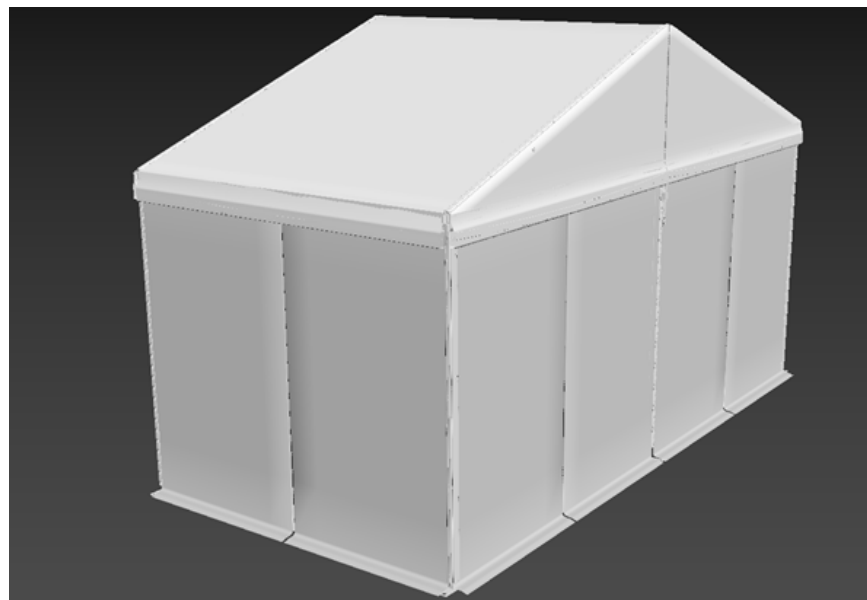
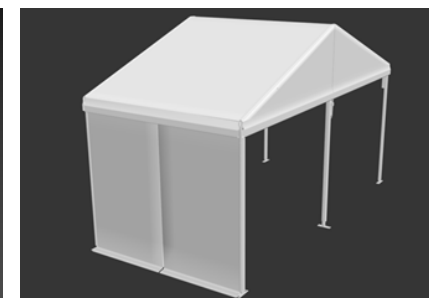
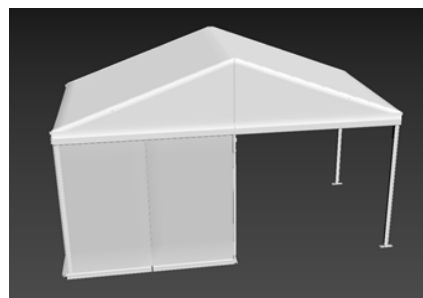




### 11.3

Insert the left/right kebab of the side wall into the channel of uprights.

Slide the wall kebab from top to bottom of the side uprights.



### 11.4

Zip the centre of the left/right side walls together.

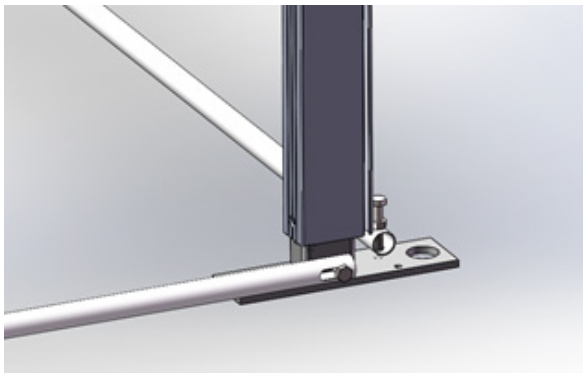
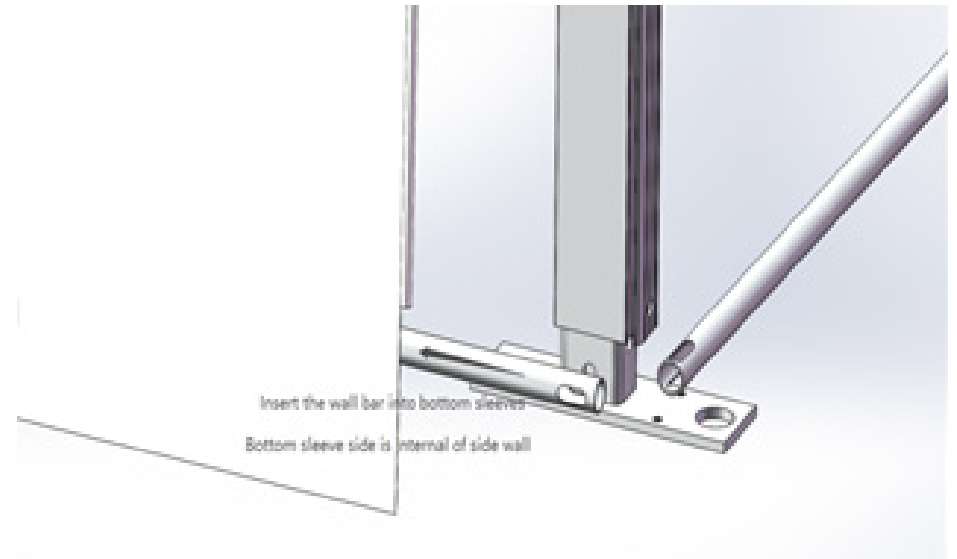
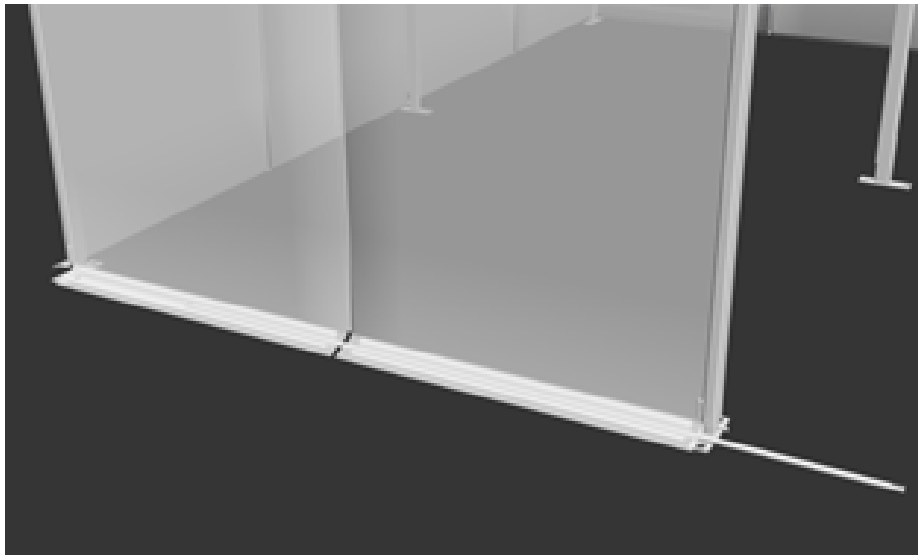


Image 1

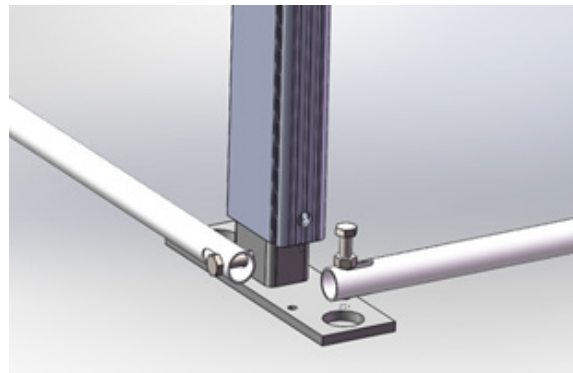


Image 2

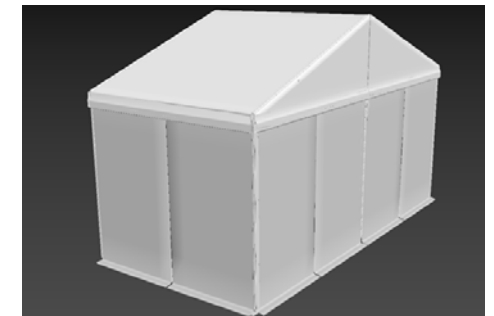


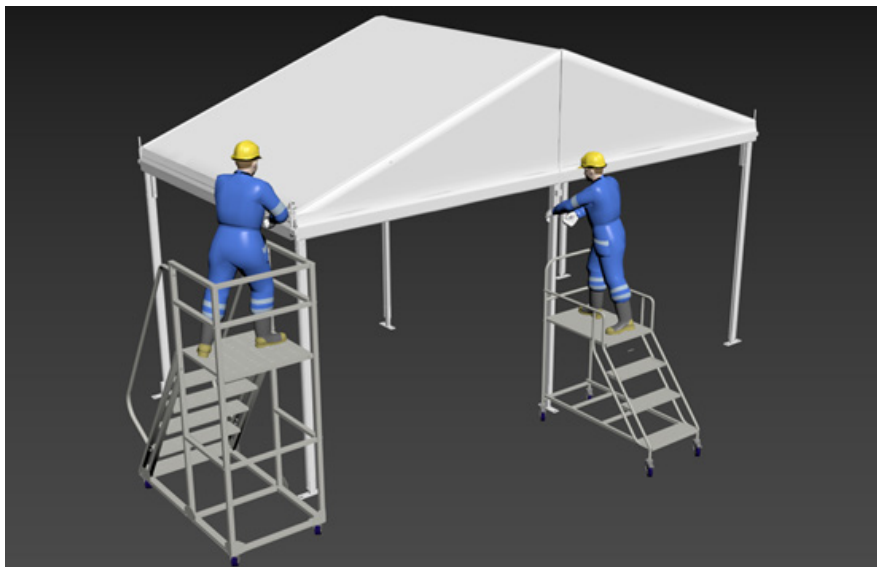
Image 3

## 11.5

Insert the wall bar into the bottom sleeve of the wall, using bolts tension the wall to the frame.

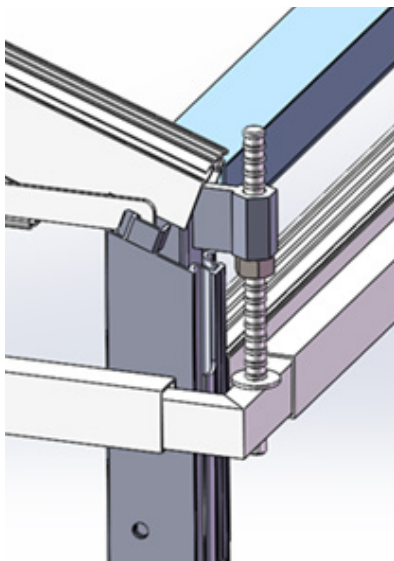
*Tips: Gable end wall bar/s, refer to image 1 and 2.  
Side panels wall bar/s, refer to image 3.*





**PLEASE NOTE:**

The tension work can only be completed once the roof, gable, and side walls have been installed.



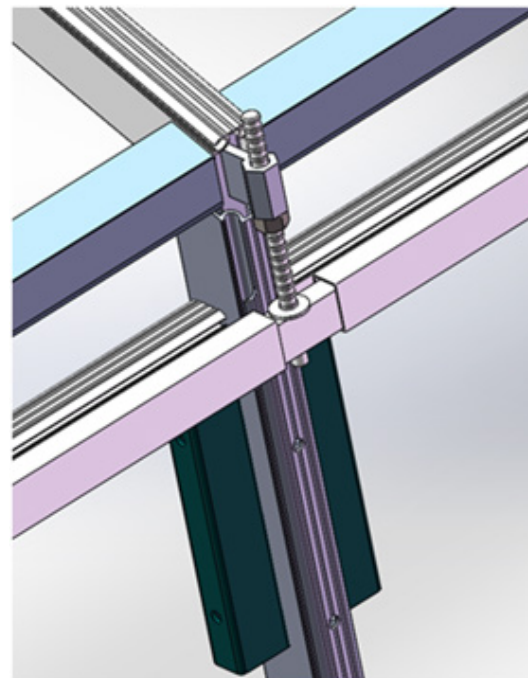
**STEP 12**  
**Fix Thread Bracing and Tension Bar**

**12.1**

Corner tension instructions for roof and gable cover.

Install the right angle connector to secure the curve tension bars (2) on gable end and side panel, lightly tension the bolt.

*Tips: The tension work can only be completed once the roof, gable, and side walls have been installed.*



**12.2**

Internal bay roof tension system

Install one connecting tube to connect the two curve tension bars. Using an eave screw to tension the two roof panels together.



### **Product Cautions and Safety**

When the marquee is in use, do not leave your marquee unattended.

Wind rating as per engineering certificate, review weather conditions.

When the Marquee is in use and if part of the structure looks damaged or not fit for purpose the marquee should be dismantled at once for safety reasons.